



Welcome

MCKAY ROAD AND VETERAN'S DRIVE CIVIL INFRASTRUCTURE PROJECTS

Virtual Public Information Centre



Presented By: Schaeffers Consulting Engineers



Why Are We Here?

The purpose of this Public Information Centre (PIC) is to:

- Provide an overview of the proposed projects,
- Explain design and construction process,
- Present details of the proposed infrastructure,
- Discuss local effects on existing residences,
- Obtain feedback from the community, and
- Provide next steps and construction schedule.

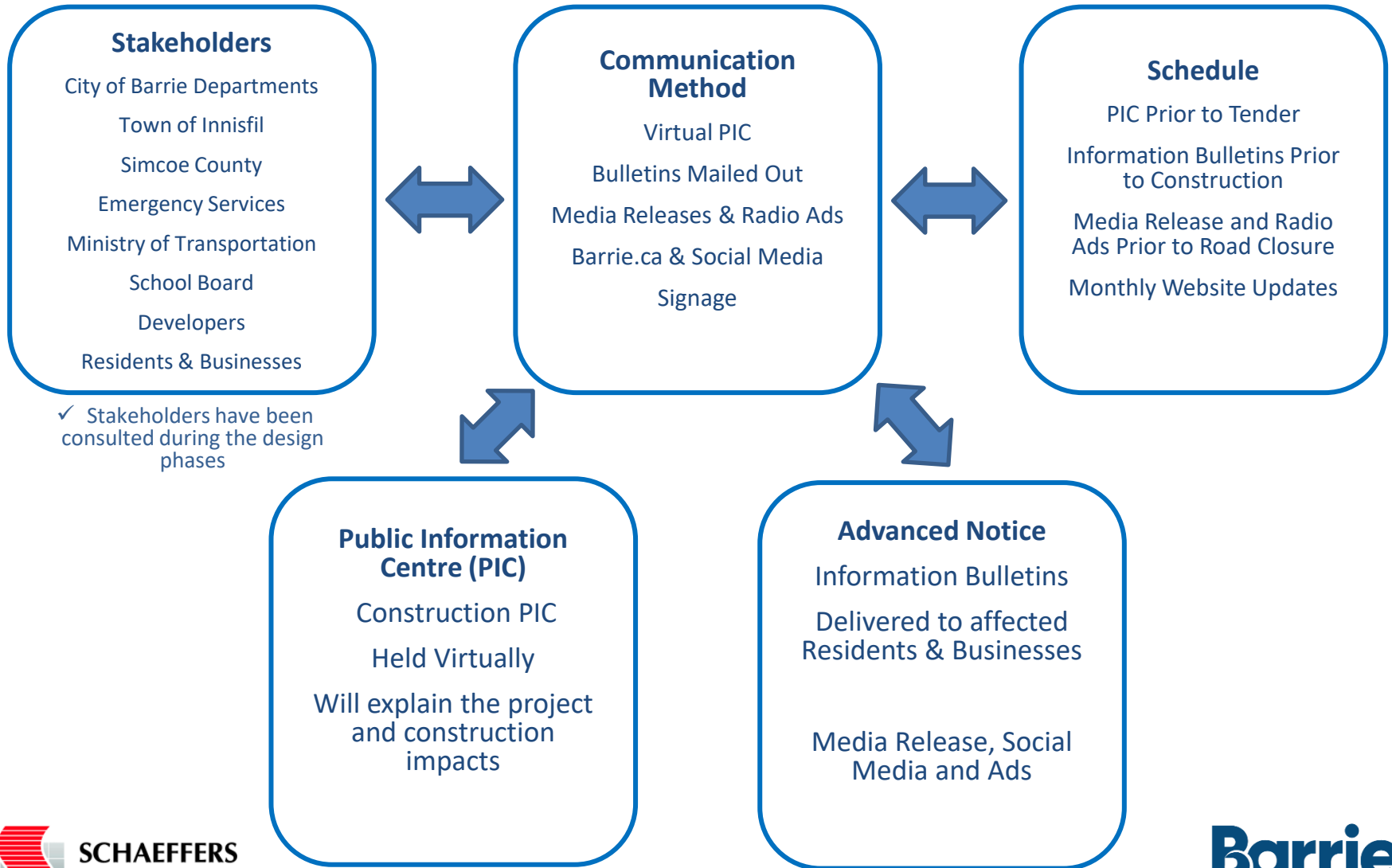
Why Are We Here?

The City encourages residents and stakeholder consultation for construction projects.

After viewing this presentation, you will have the opportunity to share your views on this project by submitting a comment sheet via the Project Website.

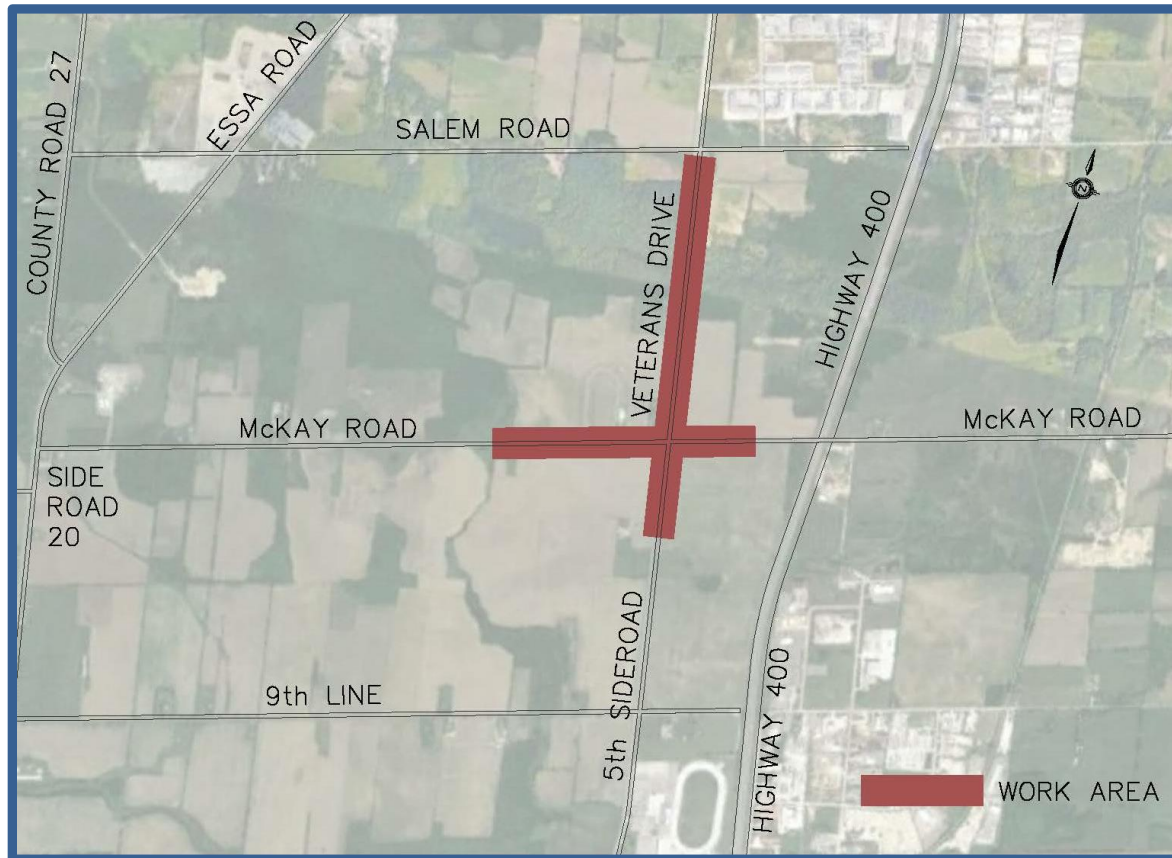
Barrie.ca/Roadwork

Project Communication Plan Components



What are the Projects About?

The projects service residential growth and development in southwest Barrie, known as Salem Secondary Plan Area (SPA). The projects are included in the first phase of infrastructure improvements in the area.



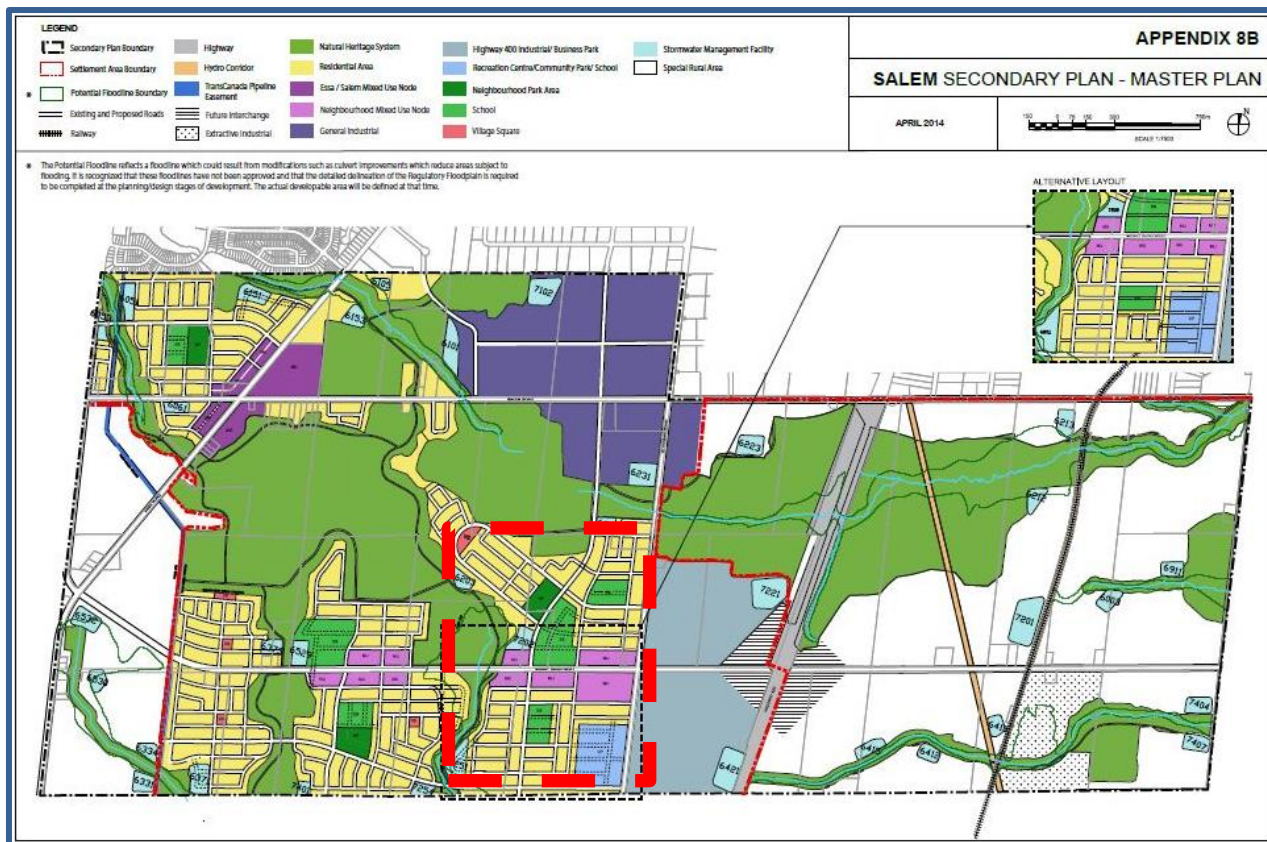
McKay Road (EN1257)

- ✓ Establishes new infrastructure, including sanitary trunk sewer, watermain, stormwater management solutions as well as road and intersection improvements.

Veteran's Drive (EN1258)

- ✓ Establishes new infrastructure, including transmission and local watermains, forcemain and intersection improvements with Salem Road.

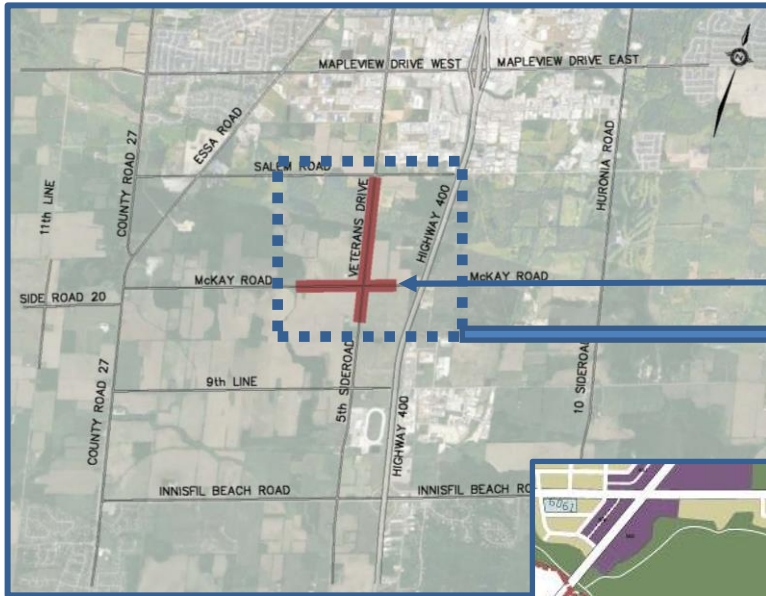
Why are these Projects needed?



2010 expansion of the City of Barrie municipal limits led to the creation of the Salem Secondary Plan. The plan was completed in December 2016 and incorporated into the City of Barrie Official Plan as an Official Plan Amendment (OPA) #38.

- ✓ The map shows the Salem SPA development plan.
- ✓ Development in the residential and mixed areas will proceed in three phases.
- ✓ The proposed infrastructure projects will facilitate the Phase 1 designated area, highlighted in red, and future development phases of the area.

What is the Projects Background?



McKay Road (EN1257)

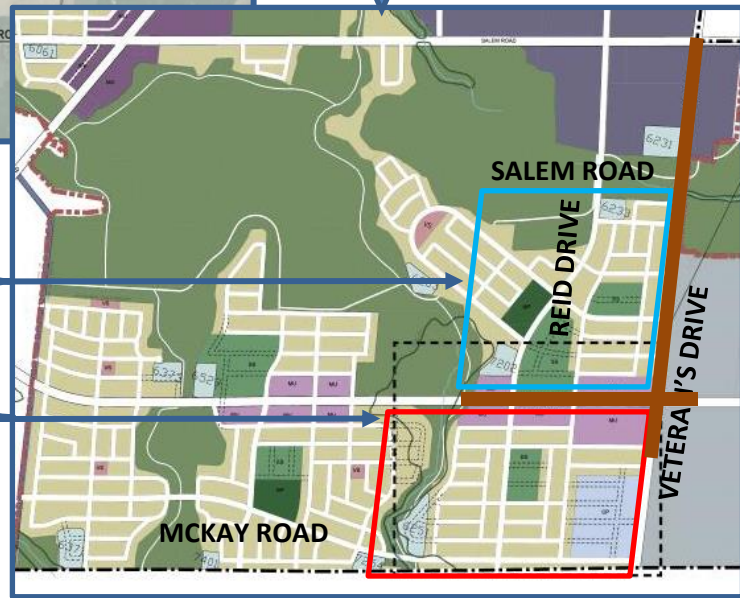
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Veteran's Drive (EN1258)

- ✓ Establishes new infrastructure, including transmission and local watermains, forcemain and intersection improvements with Salem Road.

Major Developments

- ✓ Mattamy Ltd. Residential Development
- ✓ Watersand Construction Ltd. Residential Development



What are the Project Limits?



McKay Road

- ✓ Project limits span McKay Road from the west boundary of proposed highway 400 interchange to west of proposed Reid Drive (approximately 1.2km).

Veteran's Drive

- ✓ Project limits span Veteran's Drive from Salem Road to approximately 300m south of the McKay Road (approximately 2km).

What is the Project Delivery Process?

All construction projects require a mixture of services, including planning, design, and construction.

The project team consists of an owner (City of Barrie), a designer (Schaeffers Consulting Engineers), and a builder (Salem Landowners Group c/o DG Group).

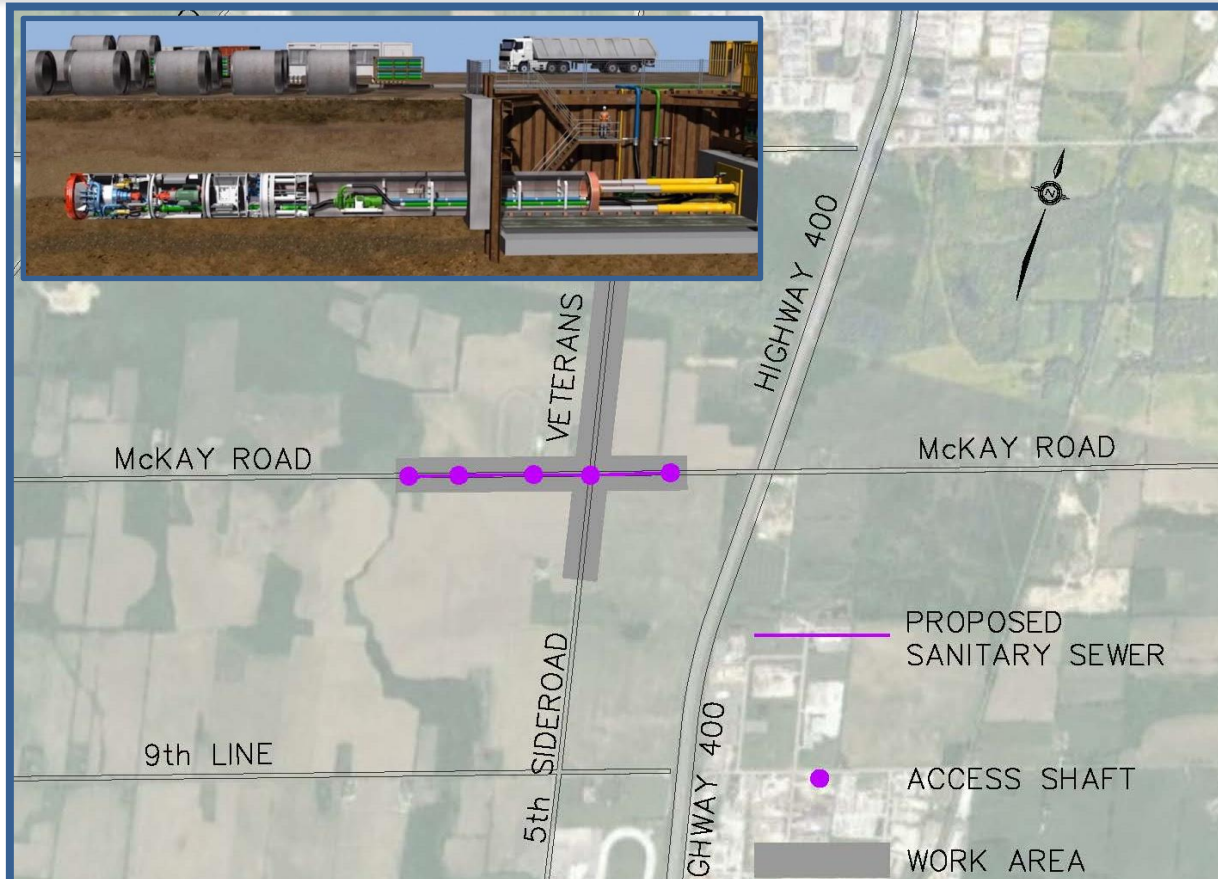
The project delivery method is Design-Bid-Build.

1. Detailed Design steps are Feasibility, 60%, 90% and 100%
2. Tender steps are Tender Documents, Bid Analysis and Contract Award
3. Active Construction

* Step 1 is completed, Step 2 is ongoing, Step 3 to start soon.

The design team has worked with the City to develop the contract documents: drawings, specifications, and other exhibits. Once the design is finished, it is sent out for general contractors to provide a bid on the project.

McKay Road West Sanitary Trunk Sewer

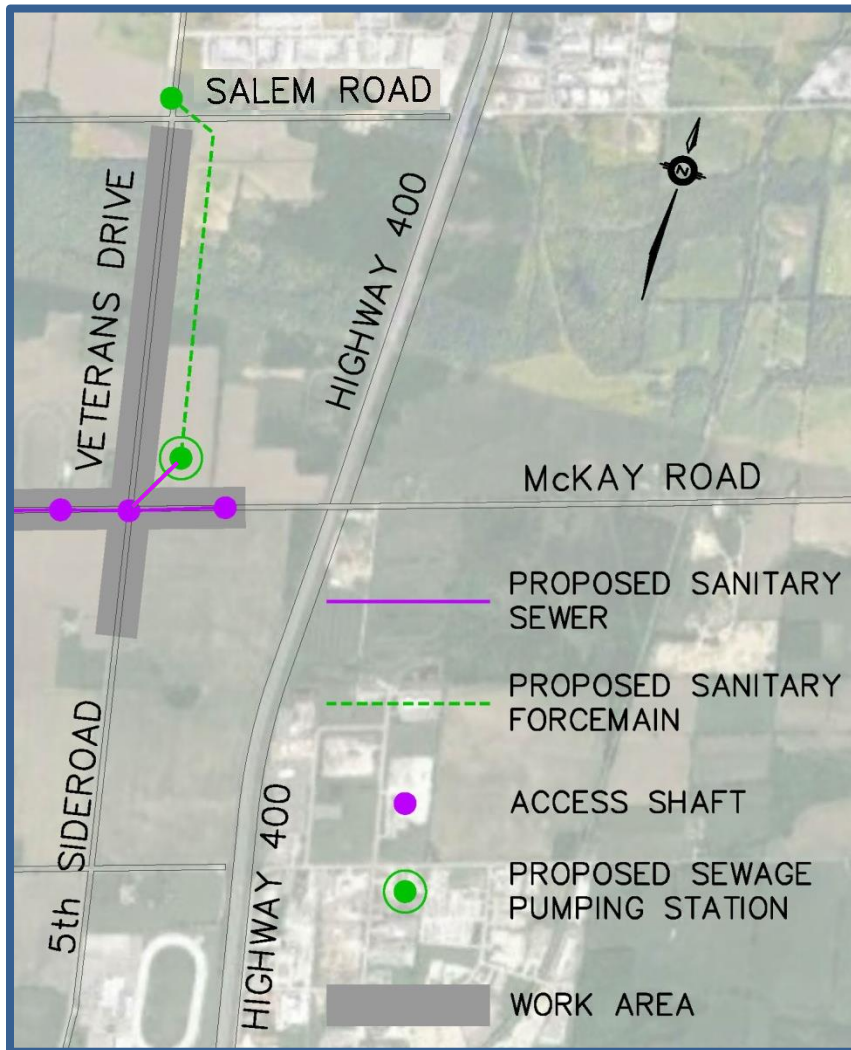


- ✓ Installation of deep 1200mm diameter sanitary sewer along McKay Road from 800m west to 350m east of intersection with Veteran's Drive using a trenchless construction method
- ✓ Five tunnel access shafts are required up to 10m wide and 20m deep
- ✓ Shafts will temporarily occupy major part of the road allowance
- ✓ Expected construction duration from March 2022 through November 2023

Key
Message

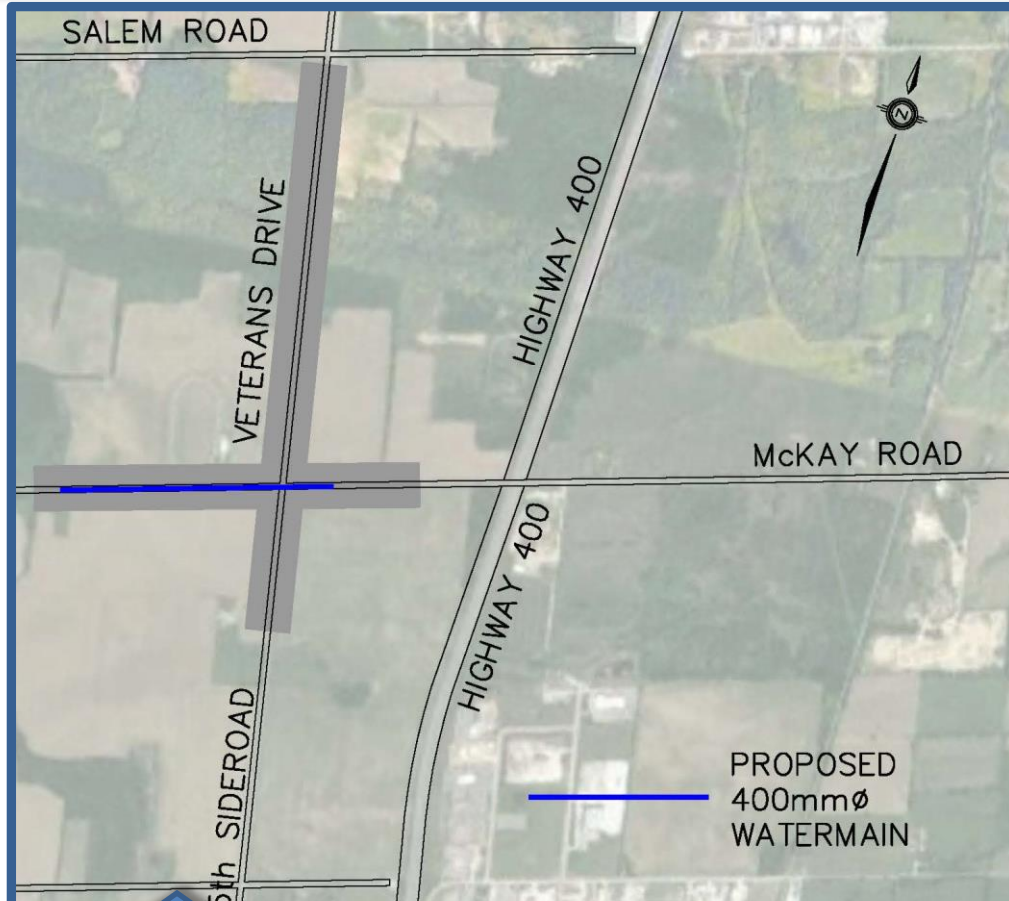
Trenchless construction is less destructive compared to open-cut construction due to the below-surface installation of pipes. As the bulk of the installation works occurs at considerable depth, it's a cleaner process with less environmental impact.

Sanitary Pumping Station and Forcemain along Veteran's Drive



- ✓ A temporary Sanitary Pumping Station (SPS) located at the northeast corner of the McKay Road/Veteran's Drive intersection will divert sewage flows from the 1200mm diameter trunk sanitary sewer proposed under McKay Road until the trunk sewer will be ultimately extended to the east to the intersection with Huronia Road and then up north along Huronia Road (City's Project EN1256).
- ✓ The SPS will redirect sewage flow via a 250mm diameter temporary sanitary forcemain extending northerly from the SPS, east of Veteran's Drive, to an existing sanitary sewer outlet located just north of the intersection with Salem Road.
- ✓ The temporary works do not form part of the proposed municipal projects and will be designed and constructed by the Salem Landowners Group. The temporary works will be decommissioned following the implementation of the City's Project EN1256, proposed for 2027.

McKay Road West Watermain

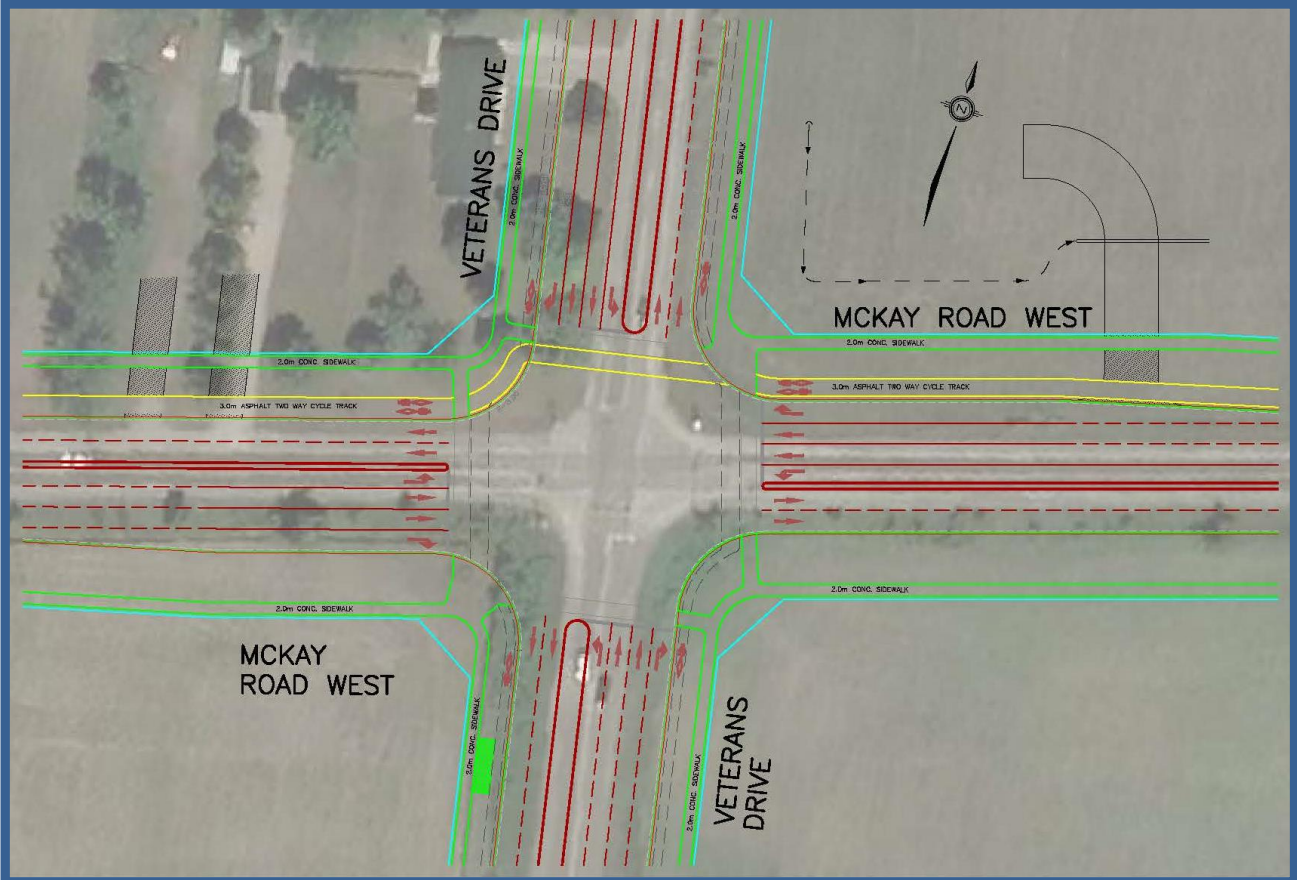


- ✓ Installation of 400mm in diameter watermain along McKay Road from 800m west to 180m east of intersection with Veteran's Drive
- ✓ Watermain is located within widened part of McKay Road in the south boulevard
- ✓ Watermain will be ultimately connected to the trunk watermain along McKay Road East
- ✓ Open cut construction
- ✓ Expected construction duration is from April 2022 through October 2022

Key
Message

The watermain allows connection to the existing Barrie water supply network and provides drinking water to the Salem Development Area.

McKay Road West and Veteran's Drive Intersection improvements

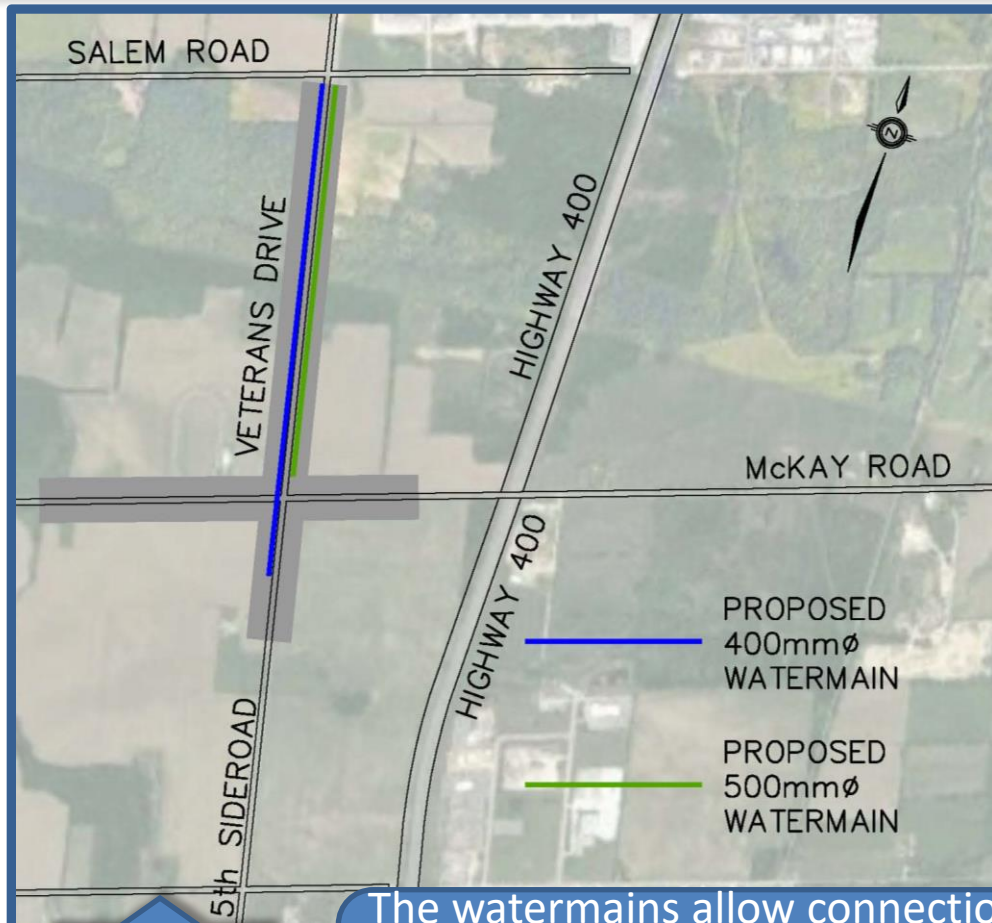


- ✓ Intersection will be raised for about 2.0m to provide drainage improvements and sufficient cover for proposed STM sewers
- ✓ McKay Road and Veteran's Drive roadways widening to accommodate future traffic in the area and proposed interchange connection to HWY400
- ✓ Traffic signalization improvements to accommodate widening of the roads
- ✓ Expected construction duration is from May 2022 through October 2023

Key Message

McKay Road and Veteran's Drive intersection improvements allow to accommodate future traffic in the area and proposed interchange connection to HWY400

Veteran's Drive Watermains



- ✓ Installation of 400mm in diameter watermain along Veteran's Drive from Salem Road to 260m south of McKay Road on the west side of the road
- ✓ Installation of 500mm in diameter transmission watermain along Veteran's Drive from Salem Road to McKay Road on the east side of the road
- ✓ Watermains are located within existing and widened part of Veteran's Drive
- ✓ Open cut construction
- ✓ Expected construction duration is from April 2022 through October 2022

Key
Message

The watermains allow connections to the existing and future Barrie water supply network, provide drinking water to the Salem Development Area, and address looping and redundancy requirements of the network.

Road Closures and Traffic Detours



- ✓ Traffic movement will be restricted
- ✓ Local access only in the work area
- ✓ Alternative routes will be established
- ✓ Passage for emergency vehicles at all times will be ensured

- ✓ **Road Closure is required from Q1 2022 to Q4 2023**

Key
Message

Safety of residents



Road Closures and Traffic Detours



- × CLOSED – McKay Road from 1 km west of Veteran's Drive to east of highway 400
- × CLOSED – Veteran's Drive from Salem Road to 9th Line
- × Road Closures are required from Q1 2022 to Q4 2023 (~22 Months)
- ✓ Local access for emergency services and residents will be maintained and coordinated with the construction contractor (3 Dwellings)
- ✓ Advanced notification and detour signs will be in place well in advance of construction
- ✓ Work will take place primarily during daytime hours
- ✓ Garbage collection will be provided at the designated location for pick up by the municipal Contractor.

Arterial Road Closures and Traffic Detours

Traffic Detour Routes were developed through engagement with stakeholders and coordination with impacted services:

The following stakeholders were consulted, and their concerns have been addressed in the construction contract:

- Barrie Fire
- Simcoe County Paramedic Services
- County of Simcoe
- Town of Innisfil
- Simcoe County District School Board

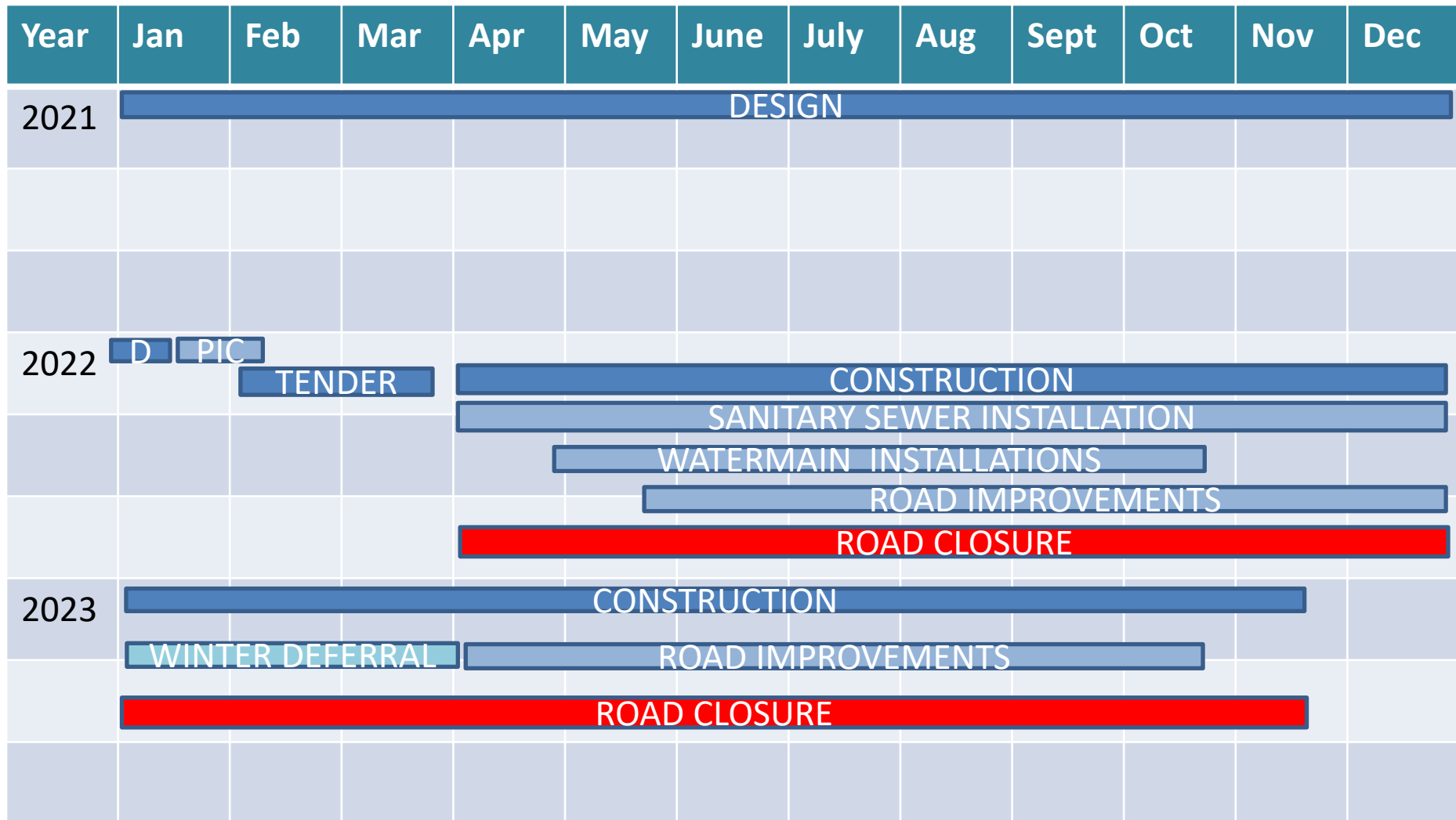
Coordination with Other Projects

- MTO – Innisfil Beach Road (IBR) Interchange: Construction 2022-2025, closure of IBR for 8 weeks in May 2023 to July 2023
- No other City, County, or Town of Innisfil projects were identified – coordination is constant

Residents and Businesses to be notified directly:

- 3 occupied residential dwellings along Veteran's Drive (2 properties to be acquired)
- Businesses: Georgian Downs, Kell's Garden, and Bryne Dr., Commerce Park Dr., and Veteran's Dr. businesses

Project Schedule / Traffic Impacts During Construction



* This is an estimated schedule and subject to completion of the final design, city approvals & sign-offs, utility relocations and property acquisition.



Schedule and Next Steps

Milestone	Date
Tender Process Start	February 2022
Construction Start	March 2022
Trunk Sewer Installation	April 2022
Watermain Installation	April 2022
Road Improvements Start	May 2022
Construction Completion	November 2023

THANK YOU

